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	Application No.	Applicant(s)	
Notice of Allowability	09/928,470	LINDNER ET AL.	
	Examiner	Art Unit	
	Jonas N. Strickland	1754	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REport the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due o	i ourse. THIS
 This communication is responsive to the amendment filed The allowed claim(s) is/are claims 1-21. The drawings filed on are accepted by the Examine Acknowledgment is made of a claim for foreign priority une All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have 	er. nder 35 U.S.C. § 119(a)-(d) or (f). e been received.		
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		on from the
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application	on nom are
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority u reference was included in the first sentence of the specification. (a) The translation of the foreign language provisional and acknowledgment is made of a claim for domestic priority u in the first sentence of the specification or in an Application. 	ation or in an Application Data Shee application has been received. nder 35 U.S.C. §§ 120 and/or 121 s	et. 37 CFR 1.78.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" o below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			TICE OF
 8. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing (c) including changes required by the attached Examiner 	correction filed, which has b	een approved by the Ex	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of			pack) of
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 1			ote the
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No 	/ Examiner's Amendi	(PTO-413), Paper No nent/Comment	·
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Stateme 9⊡ Other .	ent of Reasons for Allowa	ance

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Allowable Subject Matter

Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: The instant application is in condition for allowance, because the cited prior art fails to disclose an exhaust gas purification catalyst comprising palladium on aluminum oxide and barium oxide, wherein barium oxide and palladium crystallites are together deposited on the aluminum oxide support and the average particle size of the palladium crystallites on the support is between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

The closest cited prior art reference, Gandhi et al. (EP 0786284 A1), discloses a catalyst converter having a first highly loaded palladium or tri-metal catalytic element containing palladium of relatively large particle size closely coupled to the engine exhaust manifold (see abstract). Gandhi et al. continues to disclose wherein the highly loaded palladium may be induced by the incorporation of barium, zirconium, or stabilized cerium oxide closely coupled to the exhaust of an internal combustion engine (p. 2, col. 2, lines 49-56). Gandhi et al. continues to disclose wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A (col. 4, lines 18-21). The catalytic metals may be coated on monolithic ceramic substrates of alumina (p. 4, lines 22-26). It is anticipated that a purification catalyst comprised of palladium, wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A and barium oxide deposited on an alumina support, would exhibit a size distribution of ±0.5 nm. However, Gandhi's

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palladium particles are deposited on the support by impregnation, and not by capillary injection.

Mussmann et al. (US Patent 6,080,375) also do not teach wherein palladium crystallites are deposited onto a aluminum support along barium oxide, wherein the palladium crystallites are present on the support between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-

1700.

ANLEY S. SILVERMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

Jonas N. Strickland March 5, 2004